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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER 2343-181-64 NATL U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/541,246
INTERNATIONAL APPLICATION NO. PCT/US04/00740	INTERNATIONAL FILING DATE 14 January 2004	PRIORITY DATE CLAIMED 14 January 2003
TITLE OF INVENTION METHODS OF PREPARATION OF LIVE ATTENUATED BACTERIAL VACCINES BY ALTERATION OF DNA ADENINE METHYLASE (DAM) ACTIVITY IN THOSE BACTERIA		
APPLICANT(S) FOR DO/EO/US Mark L. LAWRENCE, et al.		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
1. <input type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371. 2. <input checked="" type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. 4. <input type="checkbox"/> The US has been elected (Article 31). 5. <input type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2)) a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).		
<b>Items 11 to 20 below concern document(s) or information included:</b>		
11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. <input type="checkbox"/> A preliminary amendment. 14. <input type="checkbox"/> An Application Data Sheet under 37 CFR 1.76. 15. <input type="checkbox"/> A substitute specification. 16. <input type="checkbox"/> A power of attorney and/or change of address letter. 17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825. 18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).		

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>10/541,246</b>	INTERNATIONAL APPLICATION NO. <b>PCT/US04/00740</b>	ATTORNEY'S DOCKET NUMBER <b>2343-181-64 NATL</b>
20. Other items or information: <div style="text-align: center; padding: 5px;"> <b>IDS Cover Sheet, Form PTO-1449, Cited Documents (51), Statement of Relevancy, List of Related Cases</b> </div>		
The following fees have been submitted		<b>CALCULATIONS      PTO USE ONLY</b>
21. <input type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... <b>\$300</b>		\$
22. <input type="checkbox"/> Examination fee (37 CFR 1.492(c))		\$
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... <b>\$0</b> All other situations..... <b>\$200</b>		\$
23. <input type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... <b>\$0</b> Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... <b>\$100</b> International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... <b>\$400</b> All other situations..... <b>\$500</b>		\$
<b>TOTAL OF 21, 22 and 23 =</b>		
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is <b>\$250</b> for each additional 50 sheets of paper or fraction thereof.		
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole number)
- 100 =	/50 =	x \$250
Surcharge of <b>\$130.00</b> for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).		\$
CLAIMS	NUMBER FILED	NUMBER EXTRA
Total claims	- 20 =	x \$ 50
Independent claims	- 3 =	x \$200
MULTIPLE DEPENDENT CLAIM(S) (if applicable)		+ \$360
<b>TOTAL OF ABOVE CALCULATIONS =</b>		\$
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.		
<b>SUBTOTAL =</b>		\$
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).		\$
<b>TOTAL NATIONAL FEE =</b>		\$
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property		\$
<b>TOTAL FEES ENCLOSED =</b>		\$
		Amount to be refunded: \$
		Amount to be charged \$

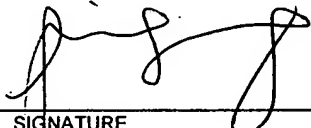
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- a. ☐ A check in the amount of \$ \_\_\_\_\_ to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees.  
A duplicate copy of this sheet is enclosed.
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- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Patent Group  
DLA Piper Rudnick Gray Cary US LLP  
1200 Nineteenth Street, N.W.  
Washington, D.C. 20036-2412

  
SIGNATURE

Ping Wang  
NAME

48,328  
REGISTRATION NUMBER

IN RE APPLICATION: Mark L. LAWRENCE, et al.

GROUP ART UNIT:

SERIAL NUMBER: 10/541,246

EXAMINER:

FILED: July 1, 2005

FOR: METHODS OF PREPARATION OF LIVE ATTENUATED BACTERIAL VACCINES BY ALTERATION OF DNA ADENINE METHYLASE (DAM) ACTIVITY IN THOSE BACTERIA

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97

Assistant Commissioner for Patents  
PO BOX 1450  
ALEXANDRIA, VA 22313-1450

Sir:

Applicant(s) wish(es) to disclose the following information.

REFERENCES

- Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. Copies of the listed documents are attached, where required, as are either statements of relevancy or any readily available full or partial English translations of any non-English-language documents.

RELATED CASES

- Attached is a list of Applicant's(s') pending applications and issued patents which may be related to the present application. Copies of the documents, where required, are attached along with Form PTO-1449.

CERTIFICATION

The undersigned certifies that

- ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application for the first time (to the knowledge of the undersigned, having made reasonable inquiry) not more than three months prior to the filing of this statement.
- ☐ no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 C.F.R. 1.56(c) more than three months prior to the filing of this statement.

BASIS FOR CONSIDERATION

This Information Disclosure Statement is filed:

- ☐ without fee and within three months of the filing date of the application.
- ☐ without fee and within three months of the date of entry of the U.S. national stage.
- without fee and before the mailing date of a first Office Action on the merits (to the knowledge of the undersigned).
- ☐ without fee and with the appropriate certification above.
- ☐ without fee and with a new CPA application.
- ☐ without fee and with a Request for Continued Examination.
- ☐ with fee and before the mailing date of any Final Office Action, Notice of Allowance or an action that otherwise closes prosecution (to the knowledge of the undersigned).
- ☐ with fee, appropriate certification above, and before payment of the Issue Fee.

DEPOSIT ACCOUNT

- Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to Deposit Account No. 50-1442.

1200 Nineteenth Street, N.W.  
Washington, DC 20036-2412  
Telephone No. (202) 861-3900  
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01/05

Respectfully submitted,  
DLA PIPER RUDNICK GRAY CARY US LLP

James M. Heintz  
Registration No. 41,828

Ping Wang, M.D.  
Registration No. 48,328

DOCKET NO. 2343-181-64 NATL

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Mark L. LAWRENCE

ART UNIT:

SERIAL NO.: 10/541,246

EXAMINER:

FILING DATE: January 14, 2004

FOR: METHODS OF PREPARATION OF LIVE ATTENUATED BACTERIAL  
VACCINES BY ALTERATION OF DNA ADENINE METHYLASE (DAM)  
ACTIVITY IN THOSE BACTERIA

**STATEMENT OF RELEVANCY**

ASSISTANT COMMISSIONER FOR PATENTS  
PO BOX 1450  
ALEXANDRIA, VA 22313-1450

SIR:

This Statement of Relevancy is herewith submitted with the concurrently filed Information Disclosure Statement. The below cited German language articles are submitted for consideration in the examination of the above-identified application in which an English language translation of the articles could not be located.

1. Geschwend, et al., *Berl. Munch Tierarztl Wschr*, Vol. 110, (1997).

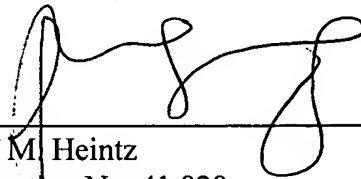
The above cited article briefly describes that *Pasteurella multocida* and *Pasteurella haemolytica* produce specific proteins in the outer membrane under iron-depleted conditions. *Pasteurella multocida* serovar A expresses these proteins of molecular masses of 76 and 96 kDa as determined by electrophoresis. The analogous serovar D produces a further iron-regulated protein of

85 kDa. The *Pasteurella haemolytica* strains of serovar A1, A6 and T contain iron-regulated outer membrane proteins of molecular masses of 71, 77 and 100 kDa. These proteins possess binding positions for iron ions. This article also briefly describes that both *Pasteurella multocida* and *Pasteurella haemolytica* strains utilize iron from porcine and bovine transferrin, but not from haemin and haemoglobin.

Consideration of the above cited references with all Information Disclosure Materials concurrently filed is respectfully requested.

Respectfully submitted,

DLA PIPER RUDNICK GRAY CARY US LLP



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Ping Wang  
Registration No. 48,328

DOCKET NO.: 2343-181-64 NATL

**LIST OF RELATED CASES**

<b>Docket Number</b>	<b>Serial or Patent Number</b>	<b>Filing or Issue Date</b>	<b>Status or Patentee</b>
2343-013-27	5,403,863	04-04-06	Granted
2343-179-27	10/767,441	01-30-04	Pending
*2343-181-64 NATL	10/541,246	07-01-05	Pending*
2343-203 NATL	11/372,187	03-10-06	Pending

The cases listed on this Notice of Related Cases include cases which may contain information that is material to patentability. The listing of a case on this Notice should not be taken as an indication or admission that any information contained therein is material. Prior art for each case listed on this Notice may have been cited. **The files corresponding to the listed cases, which are available to the Examiner, may not have not been examined to ascertain the materiality of any prior art therein.** Accordingly, the Examiner is requested to review the file for each case listed on this Notice in order to assess the materiality of such prior art.

\*Present application; listed for information.

Form PTO 1449

(Modified)

U.S. DEPARTMENT OF  
COMMERCE  
PATENT AND TRADEMARK  
OFFICE

DOCKET NO.

2343-181-64 NATL

SERIAL NO.

10/541,246

APPLICANT

Mark L. Lawrence, et al.

FILING DATE

July 1, 2005

GROUP ART UNIT

LIST OF REFERENCES CITED BY APPLICANT  
(Use Several Sheets if Necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	5,403,863	04-04-95	Mark L. Lawrence, et al.			
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AK					
	AL					
	AM					
	AN					
	AO					

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

	AP	
	AQ	
	AR	
	AS	

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	DOCKET NO.  2343-181-64 NATL	SERIAL NO.  10/541,246	
LIST OF REFERENCES CITED BY APPLICANT (Use Several Sheets if Necessary)	APPLICANT  Mark L. LAWRENCE, et al.			
	FILING DATE  July 1, 2005	GROUP ART UNIT		
	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	BA	Carter, "Observations on the Pathology and Bacteriology of Shipping Fever in Canada", Can. J. Comp. Med., Vol. 18, No. 10, pp. 359-364, 1954.		
	BB	Collier, "Significance of Bacteria in Bovine Respiratory Disease", A.V.M.A., Vol. 153, No. 12, pp. 1645-1651, 1968.		
	BC	Schiefer, et al., "Correlation of Microbiological and Histological Findings in Bovine Fibrinous Pneumonia", Vet. Pathol., Vol. 15, pp. 313-321, 1978.		
	BD	Purdy, et al., "Serotyping and Enzyme Characterization of <i>Pasteurella haemolytica</i> and <i>Pasteurella multocida</i> Isolates Recovered from Pneumonic Lungs of Stressed Feeder Calves", Current Microbiology, Vol. 34, pp. 244-249, 1997.		
	BE	Allen, et al., "The Microbial Flora of the Respiratory Tract in Feedlot Calves: Associations between Nasopharyngeal and Bronchoalveolar Lavage Cultures", Can. J. Vet. Res., Vol. 55, pp. 341-346, 1991.		
	BF	Singer, et al., "Assessment of spatial and temporal clustering of ampicillin- and tetracycline-resistant strains of <i>Pasteurella multocida</i> and <i>P. haemolytica</i> isolated from cattle in California", JAVMA, Vol. 212, No. 7, pp. 1001-1005, 1998.		
	BG	Gourlay, et al., "Experimental <i>Pasteurella multocida</i> pneumonia in calves", Res. Vet. Sci., Vol. 47, pp. 185-189, 1989.		
	BH	Bryson, et al., "Observations on outbreaks of respiratory disease in housed calves - (1) Epidemiological, clinical and microbiological findings", Vet. Rec., Vol. 103, pp. 485-489, 1978.		
	BI	Virtala, et al., "Epidemiologic and pathologic characteristics of respiratory tract disease in dairy heifers during the first three months of life", JAVMA, Vol. 208, No. 12, pp. 2035-2042, 1996.		
	BJ	Boyce, et al., "The Capsule Is a Virulence Determinant in the Pathogenesis of <i>Pasteurella multocida</i> M1404 (B:2)", Infection and Immunity, Vol. 68, No. 6, pp. 3463-3468, 2000.		
	BK	Rimler, et al., "Lipopolysaccharides of the Heddleston serotypes of <i>Pasteurella multocida</i> ", Am. J. Vet. Res., Vol. 45, No. 4, pp. 759-763, 1984.		
	BL	Brogden, et al., "Incubation of <i>Pasteurella haemolytica</i> and <i>Pasteurella multocida</i> lipopolysaccharide with sheep lung surfactant", Am. J. Vet. Res., Vol. 47, No. 4, pp. 727-729, 1986.		
	BM	Confer, et al., "Intranasal vaccination of rabbits with <i>Pasteurella multocida</i> A:3 outer membranes that express iron-regulated proteins", AJVR, Vol. 62, No. 5, pp. 697-703, 2001.		
EXAMINER			DATE CONSIDERED	
*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.				

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	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	BN	Geschwend, et al., "Untersuchungen zu den Proteinen de auBeren Membran von Pasteurellen 2. Mittellilung; Eisenregulierte Proteine der auBeren Membran bei <i>Pasteurella multocida</i> und <i>Pasteurella haemolytica</i> ", Berl. Munch Tierarztl Wschr, Vol. 110, p. 386-390, 1997.		
	BO	Negrete-Abascal, et al., "Secretion of Proteases from <i>Pasteurella multocida</i> Isolates", Curr. Micribiol., Vol. 38, pp. 64-67, 1999.		
	BP	Straus, et al., "In Vivo Production of Neuraminidase by <i>Pasteurella haemolytica</i> in Market Stressed Cattle After Natural Infection", Current Microbiol., Vol. 37, pp. 240-244, 1998.		
	BO	White, et al., "Extracellular Neuraminidase Production by a <i>Pasteurella multocida</i> A:3 Strain Associated with Bovine Pneumonia", Infection and Immunity, Vol. 63, No. 5, pp. 1703-1709, 1995.		
	BR	Galdiero, et al., "Effects of the major <i>Pasteurella multocida</i> porin on bovine neutrophils", AJVR, Vol. 59, No. 10, pp. 1270-1274, 1998.		
	BS	Fuller, et al., "Identification of <i>Pasteurella multocida</i> virulence genes in a septicemic mouse model using signature-tagged mutagenesis", Microb. Pathog., Vol. 29, pp. 25-38, 2000.		
	BT	May, et al., "Complete genomic sequence of <i>Pasteurella multocida</i> , Pm70", Proc. Natl. Acad. Sci. USA, Vol. 98, No. 6, pp. 3460-3465, 2001.		
	BU	Blyn, et al., "Regulation of <i>pap</i> pilin phase variation by a mechanism involving differential Dam methylation states", The EMBO J., Vol. 9, No. 12, pp. 4045-4054, 1990.		
	BV	Braaten, et al., "Methylation Patterns in <i>pap</i> Regulatory DNA Control Pyelonephritis-Associated Pili Phase Variation in <i>E. coli</i> ", Cell, Vol. 76, pp. 577-588, 1994.		
	AW	van der Woude, et al., "Leucine-responsive regulatory protein and deoxyadenosine methylase control the phase variation and expression of the <i>sfa</i> and <i>daa</i> pili operons in <i>Escherichida coli</i> ", Mol. Microbiol., Vol. 11, No. 4, pp. 605-618, 1994.		
	BX	Henderson, et al., "The Major Phase-Variable Outer Membrane Protein of <i>Escherichia coli</i> Structurally Resembles the Immunoglobulin A1 Protease Class of Exported Protein and Is Regulated by a Novel Mechanism Involving Dam and OxyR", J. of Bacteriol., Vol. 181, No. 7, pp. 2132-2141, 1999.		
	BY	Heithoff, et al., "An Essential Role for DNA Adenine Methylation in Bacterial Virulence", Science, Vol. 284, pp. 967-970, 1999.		
	BZ	Julio, et al., "DNA Adenine Methylase Is Essential for Viability and Plays a Role in the Pathogenesis of <i>Yersinia pseudotuberculosis</i> and <i>Vibrio cholerae</i> ", Infect. and Immun., Vol. 69, No. 12, pp. 7610-7615, 2001.		
EXAMINER		DATE CONSIDERED		
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		July 1, 2005	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	CA	Fleischmann, et al., "Whole-Genome Random Sequencing and Assembly of <i>Haemophilus influenza</i> Rd", Science, Vol. 269, pp. 496-512, 1995.	
	CB	Palmer, et al., "The <i>dam</i> and <i>dcm</i> strains of <i>Escherichia coli</i> - a review", Gene, Vol. 143, Supplement 37, pp. 1-12, 1994.	
	CC	Ausubel, et al., "Preparation of Genomic DNA from Bacteria", Current Protocols in Molecular Biology, New York, New York: John Wiley and Sons, 1994.	
	CD	Altschul, et al., "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Research, Vol. 25, No. 17, pp. 3389-3402, 1997.	
	CE	Thompson, et al., "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice", Nucleic Acids Res., Vol. 22, No. 22, pp. 4673-4680, 1994.	
	CF	Reese, et al., "Large Scale Sequencing Specific Neural Networks for Promoter and Splice Site Recognition", Biocomputing: Proceedings of 1996 Pacific Symposium, pp. 737-739, 1996.	
	CC	Willson, et al., "Characterization of a Multiple Antibiotic Resistance Plasmid from <i>Haemophilus ducreyi</i> ", Antimicrob. Agents Chemother., Vol. 33, No. 9, pp. 1627-1630, 1989.	
	CH	Jablonski, et al., "Conditions for transformation of <i>Pasteurella multocida</i> by electroporation", Micro. Pathog., Vol. 12, pp. 63-68, 1992.	
	CI	Jonczyk, et al., "The <i>Escherichia coli dam</i> gene is expressed as a distal gene of a new operon", Mol. Gen. Genet., Vol. 217, pp. 85-96, 1989.	
	CJ	Herman, et al., " <i>Escherichia coli</i> K-12 Clones That Overproduce <i>dam</i> Methylase Are Hypermutable", J. Bacteriol., Vol. 145, pp. 644-646, 1981.	
	CK	Glickman, et al., "Induced Mutagenesis in <i>dam</i> - Mutants of <i>Escherichia coli</i> : A Role for 6-Methyladenine Residues in Mutation Avoidance", Mol. Gen. Genet., Vol. 163, pp. 307-312, 1978.	
	CL	Bale, et al., "Characterization of DNA Adenine Methylation Mutants of <i>Escherichia coli</i> K12", Mutant. Res., Vol. 59, pp. 157-165, 1979.	
	CM	Marinus, et al., "Biological Functions for 6-Methyladenine Residues in the DNA of <i>Escherichia coli</i> K12", J. Mol. Biol., Vol. 85, pp. 309-322, 1974.	
	CN	Geier, et al., "Recognition Sequence of the <i>dam</i> Methylase of <i>Escherichia coli</i> K12 and Mode of Cleavage of <i>Dpn</i> I Endonuclease", J. Biol. Chem., Vol. 254, No. 4, pp. 1408-1413, 1979.	
EXAMINER		DATE CONSIDERED	
*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	DOCKET NO.  2343-181-64 NATL	SERIAL NO.  10/541,246
LIST OF REFERENCES CITED BY APPLICANT (Use Several Sheets if Necessary)	APPLICANT  Mark L. LAWRENCE, et al.		
	FILING DATE  July 1, 2005	GROUP ART UNIT	
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
	CO	Modrich, "Methyl-directed DNA Mismatch Correction", J. Biol. Chem., Vol. 264, No. 12, pp. 6597-6600, 1989.	
	CP	Marinus, et al., "Correlation of DNA adenine methylase activity with spontaneous mutability in <i>Escherichia coli</i> K-12", Gene, Vol. 28, pp. 123-125, 1984.	
	CQ	Heithoff, et al., " <i>Salmonella</i> DNA Adenine Methylase Mutants Confer Cross-Protective Immunity", Infect. and Immun., Vol. 69, No. 11, pp. 6725-6730, 2001.	
	CR	Confer, et al., "Antibody responses of cattle to outer membrane proteins of <i>Pasteurella multocida</i> A:3", Am. J. Vet. Res., Vol. 57, No. 10, pp. 1453-1457, 1996.	
	CS	Adler, et al., "Candidate vaccine antigens and genes in <i>Pasteurella multocida</i> ", J. of Biotechnol., Vol. 73, pp. 83-90, 1999.	
	CT	Cardella, et al., "Vaccination Studies Against Experimental Bovine <i>Pasteurella</i> Pneumonia", Can. J. Vet. Res., Vol. 51, pp. 204-211, 1987.	
	CU	Panciera, et al., "Bovine pneumonic pasteurellosis: Effect of vaccination with live <i>Pasteurella</i> species", Am. J. Vet. Res., Vol. 45, No. 12, pp. 2538-2542, 1984.	
	CV	Chengappa, et al., "Efficacy of a Live <i>Pasteurella multocida</i> Vaccine for the Prevention of Experimentally Induced Bovine Pneumonic Pasteurellosis", Vet. Microbiol., Vol. 21, pp. 147-154, 1989.	
	CW	Paustian, et al., " <i>Pasturella multocida</i> Gene Expression in Response to Iron Limitation", Infect. and Immun., Vol. 69, No. 6, pp 4109-4115.	
EXAMINER			DATE CONSIDERED
*EXAMINER: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.			